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SUBJ: Quit and Interrupt Conditions: A Proposal

- 1. The Quit Signal- (code 578 received by Supervisor) Effects the following actions:
 - a. The supervisor immediately responds with quit message.
 - b. Output and Input Buffer are destroyed.
 (Hopefully in the future it will be possible to save most input and output.)
 - c. ALL machine conditions and pseudo-machine conditions (user conditions) will be SAVED. and RESET.
 - d. The unit (console) will be placed at command level.
- 2. The Interrupt Signal- (code 17g received by Supervisor) Effects the following actions:
 - a. Supervisor responds with interrupt message.
 (If user at interrupt level 0, appropriate comment such as "NO ACTION" should be output.)
 - b. NO machine conditions or pseudo-machine conditions will be saved or destroyed.
 - c. The supervisor will transfer control to the proper location as set by the interrupt level logic.

Requirements and Implementation

- 1. All machine conditions and pseudo-machine conditions can be set, reset and non-destructively tested.
- 2. The 7750 (in the case of teletypes and 1050's) will determine the difference between an interrupt signal and a quit signal and generate the proper code on the following basis:
 - 1. When a "break" is received, the 7750 will set a timer and will read the line.
 - 2. If another "break" is received before the timer goes to zero:
 A quit character is generated.
 Otherwise:

An Interrupt character is generated.

- 3. The timer setting should be long enough to allow two "breaks" to be hit comfortably; short enough to allow quick respone to the character.

 Around 2-3 seconds seems reasonable.
- 3. The Break Procession and Supervisor will be programmed to handle this new character.